

IN THE CLAIMS

Please amend Claims 1-3 and 5-7 as follows:

1. (Currently Amended) A method of detecting the presence of digitally modulated data signals, the method including differentially decoding the digitally modulated signals into oversampled complex signals comprising n samples per bit, forming a successive running sum of ~~successive~~ groups of m samples, each where m is less than n , deriving an absolute value for ~~the~~ each successive running ~~sum~~ sum, weighting ~~the~~ each absolute value and determining the presence of data by comparing ~~the~~ each weighted absolute value with a threshold level.

2. (Currently Amended) A method as claimed in claim 1, ~~characterised in that~~ wherein the absolute value ~~values~~ is ~~are~~ weighted by comparing the absolute value with a plurality of threshold values of different magnitudes, the difference between threshold values of successive magnitudes comprising a window having a weighting value assigned to it, and in that ~~the~~ each weighted absolute value is a product of ~~the~~ a respective absolute value and a determined weighting value.

3. (Currently Amended) A method as claimed in claim ~~1~~ or ~~2~~, characterised by wherein estimating the ~~a~~ power level from the product of the absolute value and ~~its associated~~ said determined weighting value.

4. (Original) A method as claimed in claim 1 or 2 wherein the digitally modulated signals comprise 2-FSK signals, characterised in that a constellation containing differentially decoded imaginary values is used to form the running sum.

5. (Currently Amended) A receiver comprising means for receiving a digitally modulated signal, means for forming the digitally modulated signal into an oversampled, differentially decoded complex signal comprising a stream of n samples per bit, means for forming ~~a successive running sum~~ sums of ~~successive~~ groups of m samples, each where m is less than n , means for deriving ~~an a~~ respective absolute value for each successive running ~~sums~~ sum, weighting means for weighting the ~~each~~ respective absolute ~~values~~ value, and a comparator for comparing the weighted absolute value with a threshold level and providing an output indicative of the presence of data in the received ~~signals~~ signal.

6. (Currently Amended) A receiver as claimed in claim 5, characterised in that the weighting means comprises comparing means

for comparing the derived absolute values with a plurality of threshold values and means for selecting a weighting value based on the result of the comparison, and in that multiplying means are provided for forming ~~the~~each weighted absolute value as a product of a respective absolute value and its associated weighting value.

7. (Currently Amended) A receiver as claimed in claim 5 ~~or 6~~, characterised ~~wherein~~ by a power level estimator coupled to an output of the multiplying means.

8. (Original) A receiver as claimed in claim 5 or 6, fabricated as an integrated circuit.

9. (Withdrawn) A telemetry module including a receiver as claimed in any one of claims 5 to 8.